

*ABSTRACT AMENDMENTS*

Replace the Abstract with:

A magnetic actuator includes a first yoke, an armature ~~which is provided~~ inside the first yoke and ~~made~~ movable in reciprocating motion along a first direction inside the first yoke, first and second coils fitted inside the first yoke, a pair of second yokes affixed to the first yoke along a second direction, and permanent magnets affixed to the second yokes ~~in a manner so~~ that the permanent magnets are positioned face-to-face with the armature. In the magnetic actuator ~~thus constructed,~~ magnetic fluxes generated by the first and second coils pass through a first magnetic circuits ~~whereas fluxes~~ circuit and magnetic flux generated by the permanent magnets ~~pass~~ passes through a second magnetic circuits ~~circuit~~ differing from the first magnetic ~~circuits~~ circuit.